

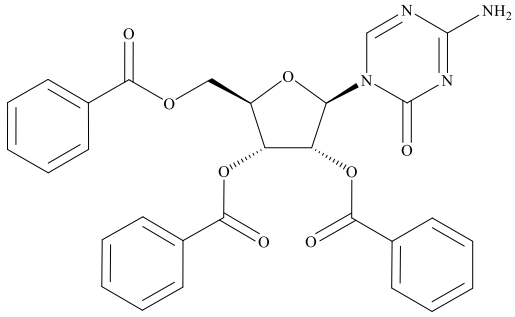
Certificate of Analysis

Certificate No.: 20200826007

Date: August 26, 2020

Retest date: August 21, 2023

Compound Name: Azacitidine Impurity 39	
Synonyms:	(2R,3R,4R,5R)-2-(4-amino-2-oxo-1,3,5-triazin-1(2H)-yl)-5-((benzyloxy)methyl)tetrahydrofuran-3,4-diyl dibenzoate
TLC Catalogue Number:	A-8147
CAS Number:	28998-36-9
Molecular Weight:	556.53
Molecular Formula:	C ₂₉ H ₂₄ N ₄ O ₈
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4009-046A3
Storage Conditions:	Store at 2-8 °C
Solubility:	DMSO, DMF, Acetonitrile



Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.6%
Impurity (HPLC)	RT 10.72, 0.11%	
Water Content (KF)	N/A	0.5%
Optical Rotation	[α] _D ^{22.0} (c=1.00, CHCl ₃): -33.1°	[α] _D ^{25.0} (c=0.38, CHCl ₃): -30.4°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.1%
Recommendation:	Released.	

Name	Department	Signature	Date
Reviewed and approved by:	Analytical Services		
Approved by:	Quality Assurance		

Attachments: HPLC, IR, MS and NMR spectra.